

Amendments to the Specification

Please replace the section from lines 1-11 on page 10 with the following replacement section:

microelectromechanical system (MEMS) device and sensors or others as disclosed herein or as otherwise known to those skilled in the art. The sensor may, as shown in Figure 11, provide for desired duplex communications in two directions between the sensor and a cooperating base unit, but would not require a power input as the sensor in this embodiment of the invention will be self-powered through energy harvesting. It is known from Faraday's law of induction that relative movement created between an electrical conductor and a magnetic field induces electrical eddy currents in the conductor. Faraday's law of induction serves to quantify the electromotor force that results in the current flow. Among the characteristics that alter and influence the current induction are changes in the magnetic field vector and orientation and/or motion of the electrical conductor relative to the magnetic field vector.

Please replace the paragraph from lines 3-8 on page 11 with the following replacement paragraph:

Referring to Figure 13, there is shown the undersurface of sensor 102 which has an integrated circuit chip 175 which contains suitable antennas for duplex communication and the desired components for energizing the sensor and providing signals from the sensor through the antenna to the base unit containing the microprocessor (not shown in this view). The legs 164, 166 from the electrically conductive loop 160 through which the magnet 170 passes are also shown.